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ABSTRACT

This book is about a newly emerging area of research in instructional technology, Computer-Supported Collaborative Learning or CSCL. The authors of these chapters talk a great deal about the theory underlying their work. Chapters include: (1) "Paradigm Shifts and Instructional Technology: An Introduction" (Timothy Koschmann); (2) "Collaboration Within and Among Minds: Mastering Complexity, Individually and in Groups" (Paul J. Feltovich, Rand J. Spiro, Richard L. Coulson, & Joan Feltovich); (3) "Mediating Microworlds: Collaboration on High School Science Activities" (Shelley V. Goldman); (4) "Computer-Supported Problem-Based Learning: A Principled Approach to the Use of Computers in Collaborative Learning" (Timothy Koschmann, Ann C. Kelson, Paul J. Feltovich, & Howard S. Barrows); (5) "New Actors, New Connections: The Role of Local Information Infrastructures in School Reform" (Donald Morrison & Bruce Goldberg); (6) "Learning to Write: Computer Support for a Cooperative Process" (Christine M. Neuwirth & Patricia G. Wojahn); (7) "Seeing What We Build Together: Distributed Multimedia Learning Environments for Transformative Communications" (Roy D. Pea); (8) "Cross-Classroom Collaboration: Communication and Education" (Margaret Riel); (9) "Learning by Collaborating: Convergent Conceptual Change" (Jeremy Roschelle); (10) "Computer Support for Knowledge-Building Communities" (Marlene Scardamalia & Carl Bereiter); (11) "Technological Support for Teachers Transitioning to Project-Based Science Practices" (Elliot Soloway, Joseph S. Krajcik, Phyllis Blumenfeld, & Ronald Marx); and (12) "Effects 'with' and 'of' CSCL: Tracking Learning in a New Paradigm" (Janet Kolodner & Mark Guzdial). Author and subject indexes are provided. (AEF)

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